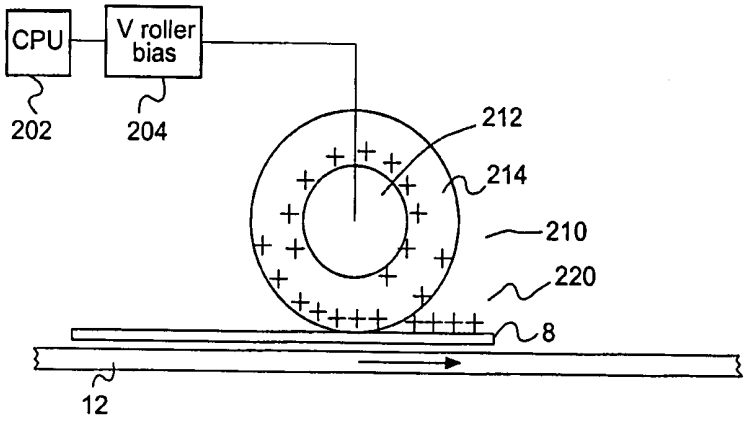
CPU
V roller bias
202
204
212
214
210
220
8
12

FIG.1

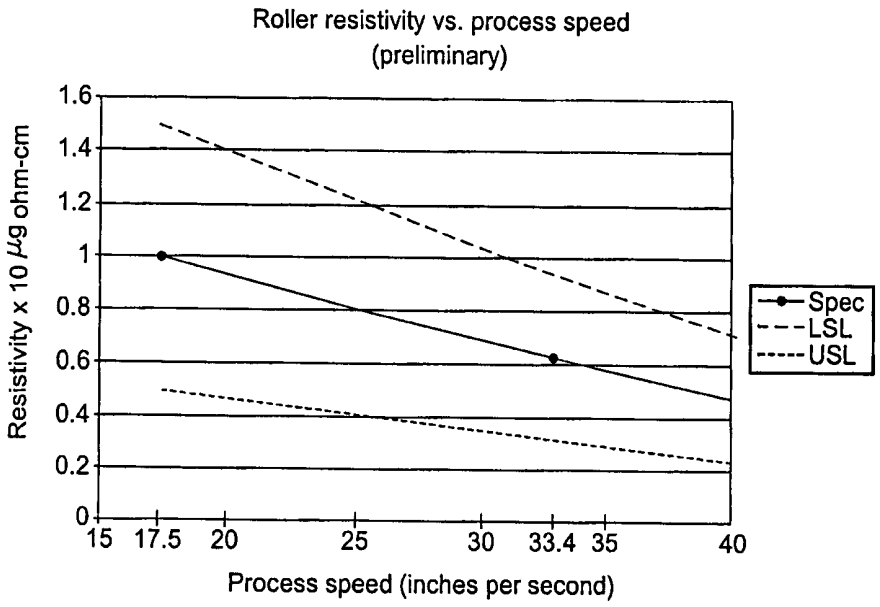
Roller resistivity vs. process speed
(preliminary)
Resistivity x 10 µg ohm-cm
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
15
17.5
20
25
30
33.4
35
40
Process speed (inches per second)
Spec
LSL
USL

FIG.2

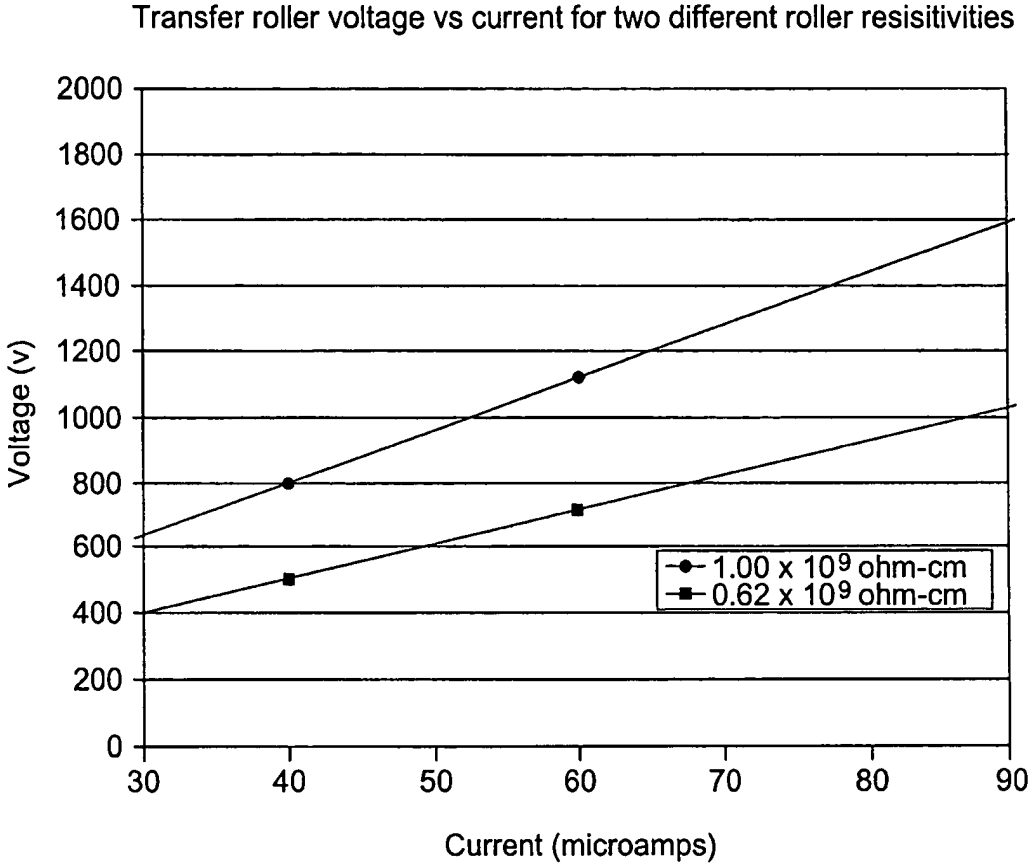
Transfer roller voltage vs current for two different roller resisitivities
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Voltage (v)
30
40
50
60
70
80
90
Current (microamps)
1.00 x 10⁹ ohm-cm
0.62 x 10⁹ ohm-cm

FIG. 3

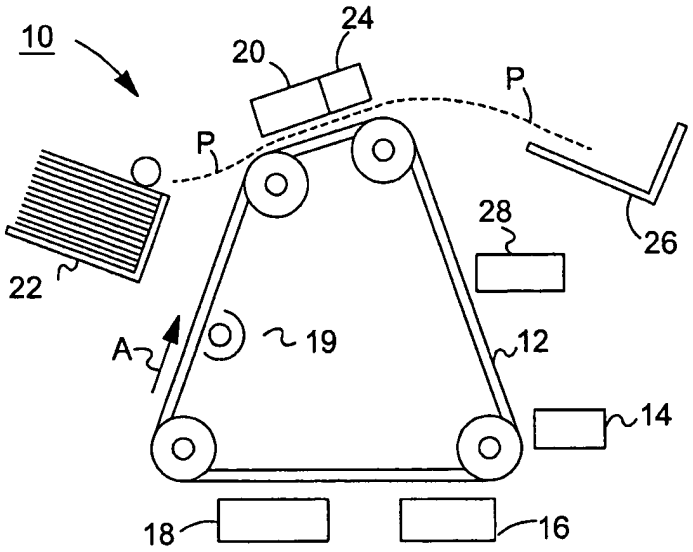
10
20
24
P
P
22
28
26
A
19
12
14
18
16

FIG. 4